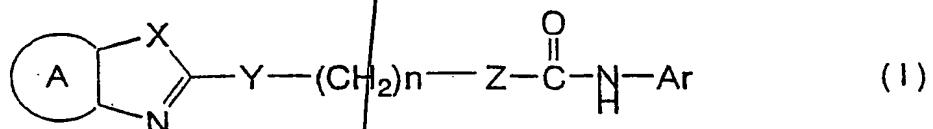


Claims

1. A compound represented by the general formula I, a salt thereof or a solvated compound thereof:



wherein



represents a divalent residue of benzene with a substituent(s), heterocycle-condensed benzene which may or may not have a substituent, pyridine which may or may not have a substituent, cyclohexane or naphthalene

or



;

Ar represents an aryl group which may or may not have a substituent;

X represents $-\text{NH}-$, oxygen atom or sulfur atom;

Y represents $-\text{NR}_4^+$, oxygen atom, sulfur atom, sulfoxide or sulfone;

Z represents single bond or $-\text{NR}_5-$;

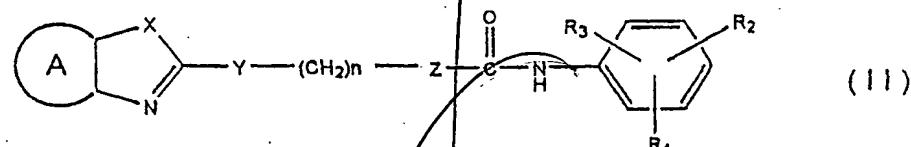
R₄ represents hydrogen atom, a lower alkyl group, an aryl

group or a silylated lower alkyl group which may or may not have a substituent;

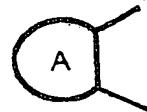
R_5 represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent; and

n represents an integer of 0 to 15.

2. A compound represented by the following formula II, a salt thereof or a solvated product thereof:

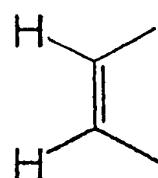


wherein



represents a divalent residue of benzene with a substituent(s), heterocycle-condensed benzene which may or may not have a substituent, pyridine which may or may not have a substituent, cyclohexane or naphthalene

or



X represents $-\text{NH}-$, oxygen atom or sulfur atom;

Y represents $-\text{NR}_4-$, oxygen atom, sulfur atom, sulfoxide or sulfone;

Z represents single bond or $-\text{NR}_5-$;

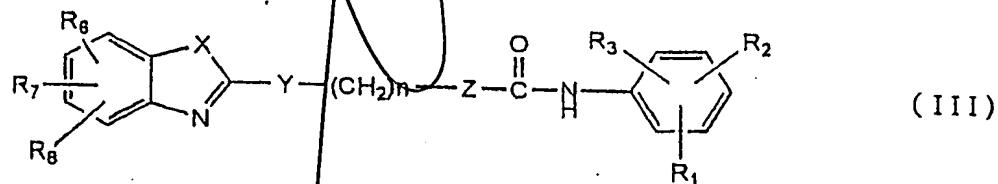
R_1 , R_2 and R_3 may be the same or different and represent hydrogen atom, a lower alkyl group, a lower alkoxy group, halogen atom, hydroxyl group, phosphate group, sulfonamide group, or amino group which may or may not have a substituent; otherwise, any combination of two of R_1 , R_2 and R_3 represents an alkylene dioxy group;

R_4 represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent;

R_5 represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent; and

n represents an integer of 0 to 15.

3. A compound represented by the following formula III, a salt thereof or a solvated product thereof:



wherein

X represents $-\text{NH}-$, oxygen atom or sulfur atom;

Y represents $-\text{NR}_4-$, oxygen atom, sulfur atom, sulfoxide or sulfone;

Z represents single bond or $-\text{NR}_5-$;

R_1 , R_2 and R_3 may be the same or different and represent hydrogen atom, a lower alkyl group, a lower alkoxy group, halogen atom, hydroxyl group, phosphate group, sulfonamide group, or amino group which may or may not have a substituent; otherwise, any combination of two of R_1 , R_2 and R_3 represents alkylene dioxy group;

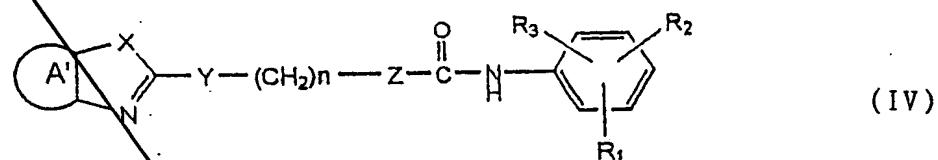
R_4 represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent;

R_5 represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent;

R_6 , R_7 and R_8 may be the same or different and represent hydrogen atom, a lower alkyl group which may or may not have a substituent, a lower alkoxy group which may or may not have a substituent, halogen atom, hydroxyl group, carboxyl group, an alkoxy carbonyl group which may or may not have a substituent, an alkyl carbonyloxy group which may or may not have a substituent, an alkyl carbonyl group which may or may not have a substituent, carbamoyl group which may or may not have a substituent, a hydroxyl alkyl group, phosphate group, cyano

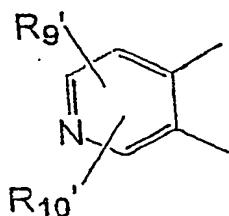
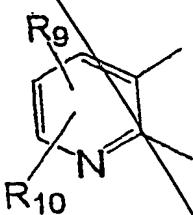
group, nitro group, sulfonamide group, amino group which may or may not have a substituent, an aminoalkyl group which may or may not have a substituent, or a heterocyclic residue; otherwise, any combination of two of R_6 , R_7 and R_8 represents an alkylene dioxy group, provided that R_6 , R_7 and R_8 never simultaneously represent hydrogen atom; and
n represents an integer of 0 to 15.

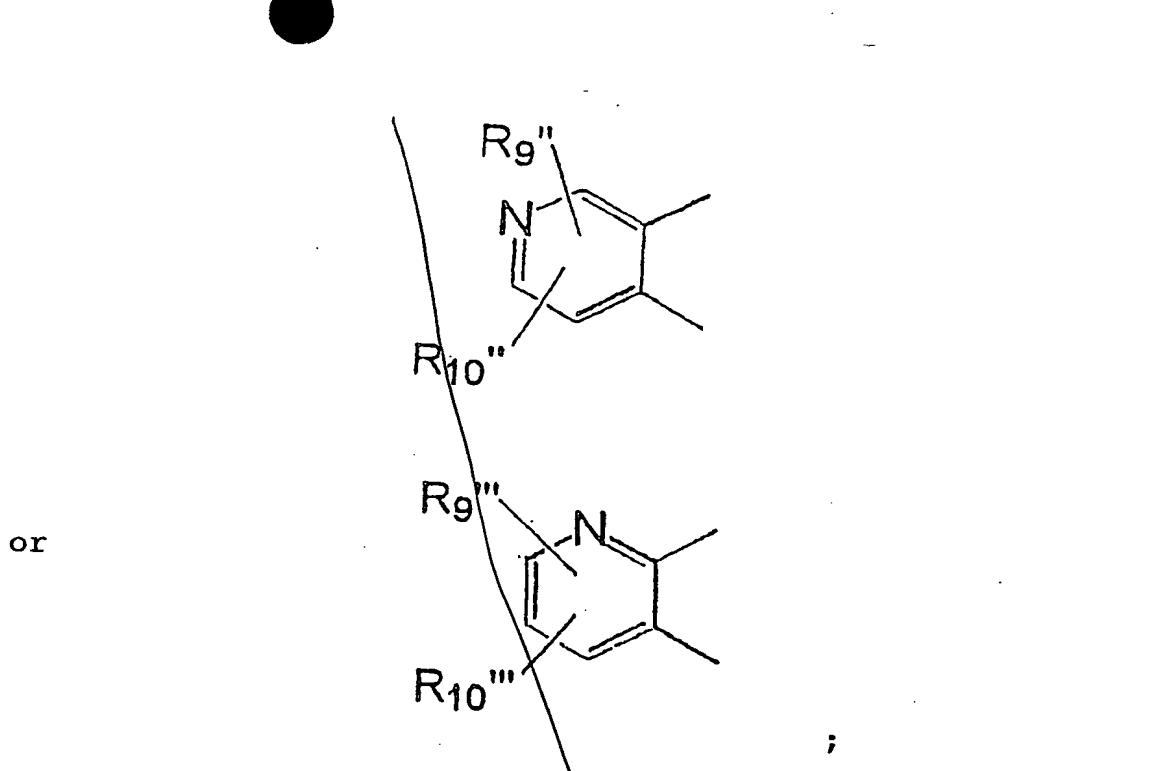
4. A compound represented by the following general formula IV, a salt thereof or a solvated product thereof:



wherein

represents





X represents -NH-, oxygen atom or sulfur atom;

Y represents -NR₄-, oxygen atom, sulfur atom, sulfoxide or sulfone;

Z represents single bond or -NR₅-;

R₁, R₂ and R₃ may be the same or different and represent hydrogen atom, a lower alkyl group, a lower alkoxy group, halogen atom, hydroxyl group, phosphate group, sulfonamide group, or amino group which may or may not have a substituent; otherwise, any combination of two of R₁, R₂ and R₃ represents an alkylene dioxy group;

R₄ represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent;

R₅ represents hydrogen atom, a lower alkyl group, an aryl group or a silylated lower alkyl group which may or may not have a substituent;

~~R₉, R₁₀, R_{9'}, R_{10'}, R_{9''}, R_{10''}, R_{9'''}, and R_{10'''} may be the same or different and represent hydrogen atom, a lower alkyl group which may or may not have a substituent, a lower alkoxy group which may or may not have a substituent, halogen atom, hydroxyl group, carboxyl group, an alkoxy carbonyl group which may or may not have a substituent, an alkyl carbonyloxy group which may or may not have a substituent, an alkyl carbonyl group which may or may not have a substituent, carbamoyl group which may or may not have a substituent, a hydroxy alkyl group, phosphate group, sulfonamide group, amino group which may or may not have a substituent, an amino alkyl group which may or may not have a substituent, or a heterocyclic residue; otherwise, any combination of two thereof represents an alkylene dioxy group; and~~

~~n represents an integer of 0 to 15.~~

5. A pharmaceutical composition comprising a compound, a salt thereof or a solvated compound thereof according to any one of claims 1 to 4, and a pharmaceutically acceptable carrier.

6. A pharmaceutical composition according to claim 5, which is an ACAT inhibitor, an intra-cellular cholesterol transfer inhibitory agent, a blood cholesterol-reducing agent or a macrophage foaming-suppressing agent.

7. A pharmaceutical composition according to claim 5, which is a prophylactic and therapeutic agent of hyperlipidemia, arteriosclerosis, cerebrovascular diseases, ischemic cardiac diseases, ischemic intestinal diseases or aortic aneurysm.

8. A method for therapeutically treating diseases with the etiology of ACAT, intra-cellular cholesterol transfer, blood cholesterol or macrophage foaming, comprising administering a therapeutically effective dose of a compound, a salt thereof or a solvated compound thereof according to any one of claims 1 to 4.

9. A method for therapeutically treating hyperlipidemia, arteriosclerosis, cerebrovascular diseases, ischemic cardiac diseases, ischemic intestinal diseases or aortic aneurysm, comprising administering a therapeutically effective dose of a compound, a salt thereof or a solvated compound thereof according to any one of claims 1 to 4.

10. The use of a compound, a salt thereof or a solvated compound thereof according to any one of claims 1 to 4, for producing an ACAT inhibitor, an intra-cellular cholesterol transfer inhibitory agent, a blood cholesterol-reducing agent or a macrophage foaming-suppressing agent.

11. The use of a compound, a salt thereof or a solvated compound thereof according to any one of claims 1 to 4, for therapeutically treating ~~hyperlipidemia, arteriosclerosis, cerebrovascular diseases, ischemic cardiac diseases, ischemic intestinal diseases or aortic aneurysm.~~

add
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